

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A multi-plate clutch device for transmitting and cutting off, with respect to an output rotor, power from an engine input rotor, the multi-plate clutch device comprising:

a clutch disk assembly ~~that is~~ being coupled to the output rotor and disposed near the input rotor; and

a clutch cover assembly ~~that is~~ being coupled to the input rotor and ~~includes~~ including a pressure plate ~~for pressing to press~~ the clutch disk assembly towards the input rotor, ~~wherein~~ the clutch disk assembly ~~is disposed with~~ having

a hub ~~that is~~ being coupled to the output rotor,

a friction coupler ~~that is~~ being disposed at an outer peripheral side of the hub and ~~is for~~ being nipped between the input rotor and the pressure plate, and

a damper mechanism ~~that~~ elastically ~~couples~~ coupling ~~together~~ the hub and the friction coupler in a rotation direction,

the friction coupler ~~includes~~ having

a ring member ~~that is~~ being coupled to an outer peripheral side of the damper mechanism,

~~plural~~ a plurality of first friction plates ~~that are~~ being disposed at an outer peripheral side of the ring member and ~~are~~ engaged with the ring

member ~~so as not~~ to be relatively ~~rotatable~~ unrotatable and to be relatively movable in an axial direction, and

a second friction plate ~~that is~~ being disposed between the ~~plural~~ plurality of first friction plates and ~~[[is]]~~ being engaged with the clutch cover assembly ~~so as not~~ to be relatively ~~rotatable~~ unrotatable and to be relatively movable in the axial direction, and

at least one of the ~~plural~~ plurality of first friction plates ~~[[is]]~~ being configured by a carbon composite material.

2. (Original) The multi-plate clutch device of claim 1, wherein at least any one of the input rotor, the pressure plate and the second friction plate is configured by a carbon composite material.

3. (Currently Amended) The multi-plate clutch device of claim 1 ~~or 2~~, wherein the hub includes a flange portion that projects outward in a radial direction around the entire periphery of the hub and ~~plural~~ a plurality of housing portions formed by part of the flange portion being cut out, and

the damper mechanism is disposed with ~~plural~~ a plurality of elastic members housed in the housing portions and a pair of coupler plates that are disposed ~~so as~~ to be relatively rotatable with respect to the flange portion in a state where the coupler plates nip the flange portion in the axial direction, with the coupler plates being disposed with window hole portions at positions corresponding to the elastic members.

4. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 1 ~~to 3~~, wherein

the ring member includes ~~plural~~ a plurality of outer teeth ~~that are~~ formed around the entire outer peripheral side of the ring member and ~~project~~ projects outward in the radial direction, and

the first friction plates include ~~plural~~ a plurality of inner teeth that ~~are~~ is formed around the entire inner peripheral sides of the first friction plates and ~~engage~~ engages with the outer teeth.

5. (Currently Amended) The multi-plate clutch device of claim 4, wherein the ring member includes projecting portions that are disposed between the ~~plural~~ plurality of first friction plates and project further outward in the radial direction from the outer teeth.

6. (Currently Amended) The multi-plate clutch device of claim ~~any of claims 1~~ ~~to 5~~, wherein

the clutch cover assembly includes an annular clutch cover and cover members that are ~~plurally~~ multiply disposed in the rotation direction and couple together the input rotor and the clutch cover, and

the second friction plate includes ~~plural~~ a plurality of notch portions that engage with the cover members.

7. (Currently Amended) The multi-plate clutch device of claim ~~any of claims 3~~ ~~to 6~~, further including fixing members that fix a part of the inner peripheral side of the ring

member in a state where ~~that~~ the part of the inner peripheral side of the ring member is nipped between the outer peripheral sides of the pair of coupler plates.

8. (Currently Amended) The multi-plate clutch device of claim ~~any of claims 3 to 7~~, wherein

the ring member includes ~~plural~~ a plurality of first engagement portions that project inward in the radial direction, and

the flange portion includes second engagement portions that project outward in the radial direction and contact with the first engagement portions when the second engagement portions rotate a predetermined relative angle.

9. (Currently Amended) The multi-plate clutch device of claim ~~7 or 8~~, wherein each fixing member includes a body portion having a cylindrical shape, head portions that are disposed at both ends of the body portion and have a larger outer diameter dimension than that of the body portion, and a stepped portion that is disposed between the body portion and one of the head portions~~[[,]]~~ and has a larger outer diameter dimension than that of the body portion and a smaller outer diameter dimension than that of the head portion.

10. (Currently Amended) The multi-plate clutch device of claim ~~7 or 8~~, wherein each fixing member includes a body portion having a cylindrical shape, head portions that are disposed at both ends of the body portion and have a larger outer diameter dimension than that of the body portion, and a tapered portion that is disposed between the body portion and one of the head portions and has an outer diameter dimension that gradually becomes larger

from the body portion towards the head portion.

11. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 1 to ~~10~~, wherein

at least one of ~~said~~ the input rotor, ~~said~~ the pressure plate and ~~said~~ the second friction plate is made of a material containing iron as a main ingredient.

12. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 1 to ~~11~~, further comprising[[:]]

a release device engaged with ~~said~~ the first biasing member ~~for~~ axially and elastically deforming ~~said~~ the first biasing member, wherein

~~said~~ the release device axially moves towards ~~said~~ the input rotor to release the biasing force applied by ~~said~~ the first biasing member to ~~said~~ the pressure plate.

13. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 1 to ~~11~~, further comprising[[:]]

a release device engaged with ~~said~~ the first biasing member ~~for~~ axially and elastically deforming ~~said~~ the first biasing member, wherein

~~said~~ the release device axially moves away from ~~said~~ the input rotor to release the biasing force applied by ~~said~~ the first biasing member to ~~said~~ the pressure plate.

14. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 1 to ~~13~~, further comprising[[:]]

a second biasing member located between said input and output rotors, and having an elastic reaction force smaller than a pushing load applied to said first friction plate for power transmission.

15. (Currently Amended) The multi-plate clutch device of claim 14, wherein
said the second biasing member is arranged between said the first biasing member and
said the pressure plate.

16. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 3
~~to 15~~, further comprising[[:]]

an annular friction member arranged between at least one of said the coupler plates
and said the flange portion ~~for receiving~~ to receive an axial load exerted between said the
coupler plate and said the flange portion.

17. (Currently Amended) The multi-plate clutch device of ~~any of claims~~ claim 3
~~to 16~~, further comprising[[:]]

an annular third biasing member arranged between at least one of said the coupler
plates and said the flange portion ~~for applying~~ to apply an axial biasing force between said
the coupler plate and said the flange portion.

18. (Currently Amended) The multi-plate clutch device of claim 17, wherein
said the third biasing member is formed of an axially and elastically deformable
Belleville spring.

19. (Currently Amended) The multi-plate clutch device of claim 17, wherein ~~said the~~ third biasing member is formed of an axially and elastically deformable wavy spring.

20. (Currently Amended) A clutch disk assembly for transmitting and intercepting a power from a flywheel on an engine side to an input shaft of a transmission, comprising:

a friction plate being made of carbon and pressed against ~~said the~~ flywheel;

a clutch disk body having a disk-like input portion having an outer periphery portion coupled to an inner peripheral portion of the friction plate, and an output portion coupled to the input shaft of the transmission; and

a plurality of fixing units directly coupling the outer peripheral portion of ~~said the~~ disk-like input portion to the inner peripheral portion of ~~said the~~ friction plate.

21. (Currently Amended) The clutch disk assembly of claim 20, wherein

~~said the~~ friction plate has a recess for inserting said fixing unit,[[:]] and

~~said the~~ fixing unit has[[:]]

a flange portion being in contact with a side surface of ~~said the~~ friction plate ~~for restricting~~ to restrict the relative axial movement of ~~said the~~ friction plate,

a trunk portion inserted into the recess of ~~said the~~ friction plate, having a thickness corresponding to the thickness of ~~said the~~ friction plate and having an end surface partially in contact with a side surface of ~~said the~~ disk-like input portion, and

a fixing portion formed at an end remote from ~~said the~~ flange portion, and

fixed to ~~said~~ the disk-like input portion.

22. (Currently Amended) The clutch disk assembly of claim 20-~~or 21~~, wherein ~~said~~ the fixing unit is a rivet, and ~~said~~ the fixing portion is fixed by caulking.

23. (Currently Amended) The clutch disk assembly of claim 20, wherein ~~said~~ the friction plate has a recess to accommodate ~~for inserting said~~ the fixing unit, ~~[[;]]~~ and

~~said~~ the fixing units are formed of ~~[[;]]~~

a first fixing unit having a trunk portion inserted into the recess of ~~said~~ the friction plate,

a second fixing unit having a shaft portion axially extending through ~~said~~ the first fixing unit,

a flange portion formed at one end of ~~said~~ the shaft portion and axially engaging with ~~said~~ the friction plate, and

a fixing portion formed at the other end of ~~said~~ the shaft portion and axially engaging with ~~said~~ the disk-like input portion.

24. (Currently Amended) The clutch disk assembly of claim 20, wherein ~~said~~ the friction plates are arranged in two positions on ~~[[the]]~~ axially opposite sides of an outer peripheral portion of ~~said~~ the disk-like input portion, respectively, and have recesses for inserting ~~said~~ the fixing unit ~~[[;]]~~ and

~~said~~ the fixing units are formed of ~~[[;]]~~

a first fixing unit having a trunk portion inserted into the recess of ~~said~~ the friction plate, and

a second fixing unit having a shaft portion axially extending through ~~said~~ the first fixing unit and ~~said~~ the disk-like input portion,

a flange portion formed on one end of ~~said~~ the shaft portion and axially engaging with one of ~~said~~ the friction plates, and

a fixing portion formed on the other end of ~~said~~ the shaft portion and axially engaging with the other friction plate.

25. (Currently Amended) The clutch disk assembly of claim 23-~~or~~ 24, wherein ~~said~~ the second fixing unit is a rivet, and ~~said~~ the fixing portion is fixed by caulking.

26. (Currently Amended) The clutch disk assembly of claim 20, wherein ~~said~~ the friction plate has a recess to accommodate ~~for inserting~~ ~~said~~ the fixing unit, ~~[[;]]~~ and

~~said~~ the fixing units are formed of a first fixing unit having a trunk portion inserted into the recess of ~~said~~ the friction plate, having a thickness corresponding to the thickness of ~~said~~ the friction plate and having an end surface partially in contact with a side surface of the disk-like input portion, and a fixing portion fixed to ~~said~~ the disk-like input portion, and

a second fixing portion having a flange portion axially engaging with ~~said~~ the friction plate, and a coupling portion coupling ~~said~~ the flange portion and ~~said~~ the first fixing unit together.

27. (Currently Amended) The clutch disk assembly of claim 20, wherein
~~said the~~ the friction plate has a recess for inserting ~~said the~~ the fixing unit; and
~~said the~~ the fixing units are formed of[[:]]

a first fixing unit having a trunk portion inserted into the recess of ~~said the~~ the
friction plate, and

a second fixing portion having a flange portion axially engaging with ~~said the~~ the
friction plate, a coupling portion axially extending through ~~said the~~ the first fixing unit
and fixing ~~said the~~ the flange portion to ~~said the~~ the first fixing unit, and

a fixing portion formed at an end of ~~said the~~ the coupling portion remote from the
flange portion, and coupling said first fixing unit to ~~said the~~ the disk-like input portion.

28. (Currently Amended) The clutch disk assembly of ~~any of claims~~ claim 21 ~~or~~
27, wherein

~~said the~~ the trunk portion has an axial length equal to or longer than the thickness of ~~said~~
the friction plate.

29. (Currently Amended) The clutch disk assembly of ~~any of claims~~ claim 21 ~~or~~
28, wherein

the recess of ~~said the~~ the friction plate has a pair of parallel side surfaces extending in a
radial direction, and

the trunk portion of ~~said the~~ the fixing unit has a pair of flat surfaces ~~for to~~ to contact with
~~said the~~ the pair of side surfaces.

30. (Currently Amended) The clutch disk assembly of claim 29, wherein spaces are ensured between the pair of plat surfaces formed at the trunk portion of ~~said the~~ fixing unit and the pair of side surfaces of the recesses of ~~said the~~ friction plate.

31. (Currently Amended) The clutch disk assembly of ~~any of claims~~ claim 22 to 30, wherein ~~said the~~ fixing unit further has an annular member arranged between ~~said the~~ friction plate and at least one of ~~said the~~ flange portion and ~~said the~~ fixing portion.

32. (Currently Amended) The clutch disk assembly of claim 31, wherein ~~said the~~ annular member has an outer diameter larger than the circumferential width of the recess of ~~said the~~ friction plate.

33. (Currently Amended) The clutch disk assembly of ~~any of claims~~ claim 23 to 32, further comprising[[:]] an annular coupling member being configured to couple ~~for coupling~~ ~~said the~~ plurality of fixing units, wherein ~~said the~~ coupling member is arranged between ~~said the~~ friction plate and ~~said the~~ flange portion.

34. (Currently Amended) The clutch disk assembly of ~~any of claims~~ claim 20 to 33, wherein ~~said the~~ clutch disk body includes[[:]]

a hub serving as ~~said~~ the output portion and having a boss coupled to the input shaft of ~~said~~ the transmission and a flange portion extending radially from the boss, and

a disk-like input plate arranged on a side of the flange portion of ~~said~~ the hub and serving as the disk-like input portion.

35. (Currently Amended) The clutch disk assembly of claim 34, wherein ~~said~~ the disk-like plate is arranged ~~for rotation~~ to rotate within a predetermined angular range with respect to the flange portion of ~~said~~ the hub, and ~~said~~ the clutch disk body further includes a damper portion circumferentially and electrically coupling ~~said~~ the disk-like input plate and ~~said~~ the flange portion of the hub.